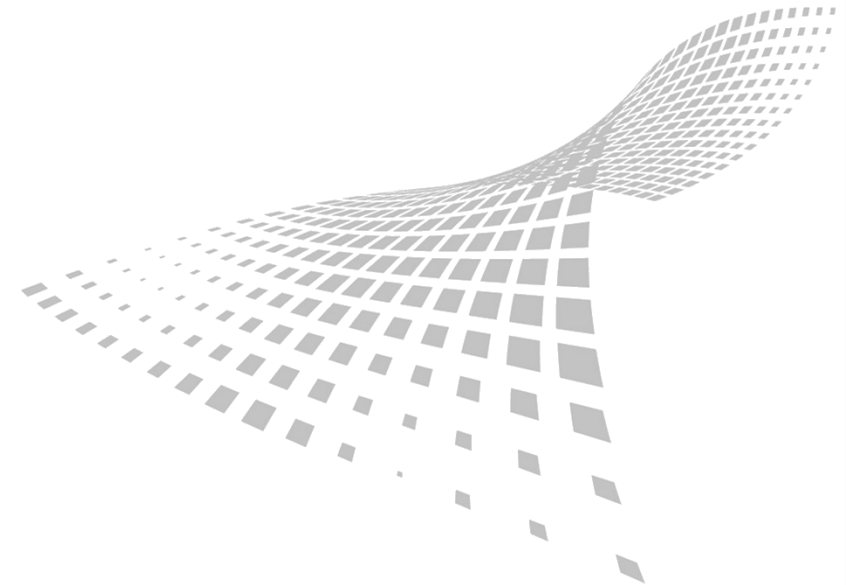


NB-IoT Network Coverage Testing Solution

Transcom Instruments



Background



- As NB-IoT experimental network rapidly developed in many countries, the demand for network testing instruments has grown bigger
- Current testing methods have some common issues:
 - Current NB-IoT does not support terminal testing unit switch, which means terminal testing unit has to be reboot for test maximum coverage area
 - Terminal testing unit can only be applied for corresponding network for each brands, there is not a neutral testing instrument on the market
- Transcom provides the first third-party instrument for neutral NB-IoT network testing

System Composition



Transcom provides complete solution for NB-IoT network coverage testing by combining Micro-Rx NB-IoT Signal Analyzer Module and analysis software

Analysis software is able to test and analyze NB-IoT area by reading frequency point, PCI, RSRP, RSSI, time-domain and frequency-domain oscillogram that generated by Micro-Rx NB-IoT Signal Analyzer Module



Application

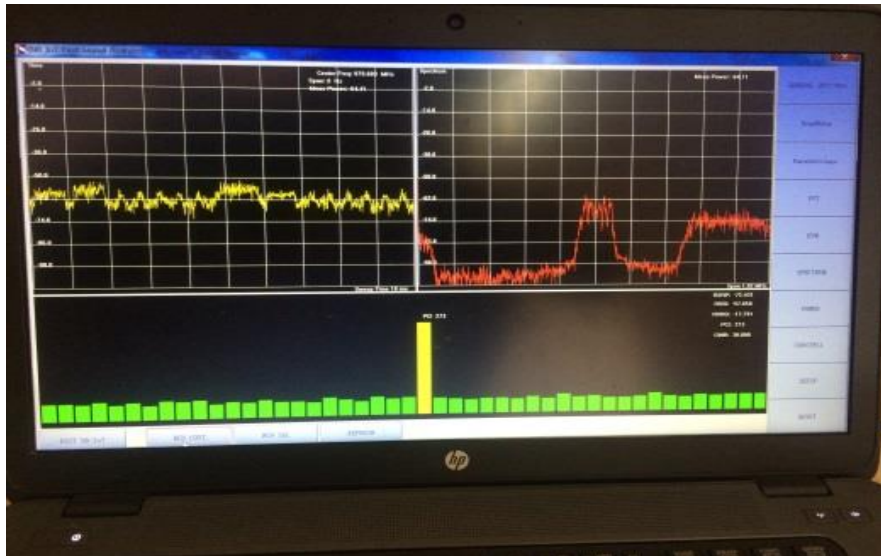


Using Micro-Rx output both maximum area time-domain and frequency-domain oscillogram and minimum area frequency point, PCI, RSRP, CINR, RSSI for:

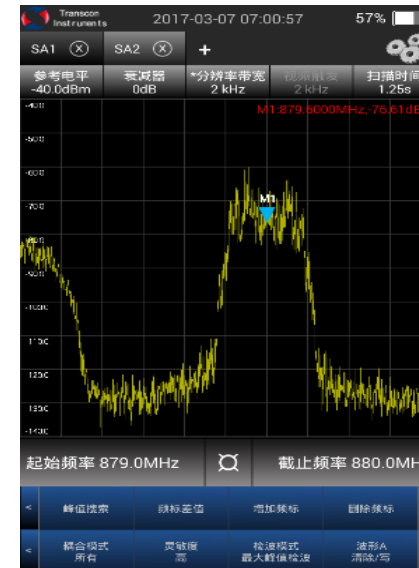
NB-IoT area coverage testing

Fixed scene penetration loss testing

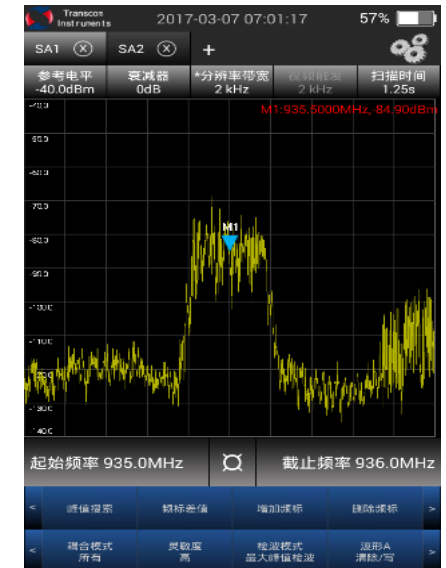
Operator coverage comparison testing



Operator A frequency point : 879.6MHz PCI:273



Operator A : 879.6MHz



Operator B : 935.5MHz



Micro-Rx NB-IoT Signal Analyzer Module

- Frequency Range: 10HMz-4200HMz
- Test and analyze NB-IoT base station down-link signal, output frequency point, PCI, RSRP, RSSI, time-domain and frequency-domain oscillogram
- Support independent deployment, internal band deployment and protective band testing
- Testing speed $\leq 4s$ (topN testing ; $N \leq 3$)
- Same frequency analysis $\leq 4dB$
- DANL -168dBm/Hz
- Secondary system upgrade and integration
- USB type connection
- N type female RF interface



Preparing Today for 5G of Tomorrow



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